OPERATION, MAINTENANCE, AND MONITORING PLAN

VOLUME 3

Leachate Management Systems

Prepared for:

Bridgeton Landfill, LLC
13570 St. Charles Rock Rd.
Bridgeton, MO 63044

Prepared by:

CIVIL & ENVIRONMENTAL CONSULTANTS, INC.
4848 Park 370 Blvd., Suite F
Hazelwood, MO 63042

CEC Project 130-484

August 2019

TABLE OF CONTENTS

Table of Contents (Continued)

TABLES

APPENDICES

DOCUMENTS INCORPORATED BY REFERENCE
(MAINTAINED IN LANDFILL OFFICE)

- Leachate Pretreatment Operation and Maintenance Manual by Civil & Environmental Consultants, Inc.
- Bridgeton Landfill Health and Safety Plan
- Common Operations and Maintenance Standard Operating Procedures MSD/Bridgeton Landfill
- Quarterly Infrastructure Update
- Leachate Management Plan by Civil and Environmental Consultants, Inc.
- Leachate Pre-Treatment Plant Solids Sampling Plan September 19, 2014 by Barr Engineering
- Other documents are listed in the body of this OM&M Plan

1.0 INTRODUCTION

1.1 BACKGROUND

This document comprises Volume 3 of a three-volume Operation, Maintenance, and Monitoring Plan (OM&M Plan) for the Bridgeton Landfill, LLC (Bridgeton Landfill). The OM&M Plan (Plan) consists of:

- Volume 1 - General Requirements and Surface Systems
- Volume 2 - Gas and Subsurface Control Systems
- **Volume 3 – Leachate Management Systems (this volume)**

The history of the landfill as well as the OM&M Plan's purpose, management structure, data collection and reporting, and procedures for Plan modifications are described in Volume 1.

A reaction called a subsurface reaction or SSR has continued to occur within a portion of the landfill known as the South Quarry. The SSR produces atypical effects on the waste mass, potentially impacting the leachate management system, including:

- Elevated temperatures that may require special construction materials;
- Thermal decomposition (pyrolysis) of waste resulting in much higher than typical levels of certain constituents such as biochemical oxygen demand (BOD), chemical oxygen demand (COD), volatile organic compounds (VOCs), and certain dissolved metals in the leachate;
- Drying of waste which results in a steam/water vapor front moving out, up, and away from the reaction that then condenses in the cooler surrounding waste mass and gas extraction wells, resulting in more than typical liquid generation and potential obstruction of gas extraction well perforations;
- Higher-than-normal temperature of the waste body adjacent to the reacting waste mass, causing conversion of liquid into steam, thus adding pressure and the potential for forceful ejection of liquid in some locations; and,
- Settlement under and/or adjacent to the reacting waste mass creating pinches, warps, and or breaks in the leachate management features.

Each of these conditions can result in operational and maintenance challenges. Therefore, special operating and maintenance procedures are, and will be, necessary for the leachate management systems to function effectively until conditions allow for resumption of typical procedures.

1.2 STATUS OF THE LEACHATE MANAGEMENT SYSTEM

Operation and maintenance procedures currently in use are primarily those presented in the following documents:

- Volume 1 of this OM&M Plan.
- Volume 2 of this OM&M Plan.
- Leachate Management Plan, by Civil & Environmental Consultants, Inc.
- Operations and Maintenance Manual - Leachate Pre-Treatment Plant (LPTP) for the Bridgeton Landfill, by Civil & Environmental Consultants, Inc.

The LPTP has been constructed to meet the conditions of the leachate pre-treatment procedures outlined in the following documents:

- Leachate Pre-Treatment System Plan, August 30, 2013 (Revised September 9, 2013) by Civil & Environmental Consultants, Inc.
- Treatment Building Construction Plans for Bridgeton Landfill, August 30, 2013 by Civil & Environmental Consultants, Inc.

1.3 COMPONENTS OF THE LEACHATE MANAGEMENT SYSTEM

The major components of the leachate management system include:

Liquid Collection System

- Leachate Collection Sumps – Deep landfill extraction sumps are designated as LCS- #.
- Gas Extraction Wells- Gas extraction wells (GEW) are required by the facility's operating permit. To remove and collect liquid from the GEWs many of them have been augmented with pumps. These are designated as GEW- #.
- Condensate Traps – Liquid that condenses from gas in the collection piping system is collected in condensate traps. These are designated as CT- #.
- Leachate Trench – A trench installed in the "amphitheater" area in 2012 to intercept leachate flow. These Horizontal collection sumps are designated as HZ- #.
- Leachate Sumps – Leachate sumps are connected to the leachate trench and provide points for collecting leachate from the leachate trench. These are designated as LS- #.
- Perimeter Sumps - Subcap Collection – A series of drains has been installed under the flexible membrane liner (FML) cap at the landfill to collect subcap condensation and leachate outbreaks. These convey liquids to a series of perimeter sumps at the perimeter of the South Quarry area. These are designated as PS- #.

Liquid Conveyance System

- Lateral Conveyance Piping – Pressurized or gravity pipes that transmit liquid from a collection feature to a perimeter header force main or pump station.
- Pump Stations – Provide for local collection of liquid and introduction into the perimeter force main. These may be CT, LS, PS, or dedicated lift station features.
- Perimeter Force Main – Pressurized pipe that conveys collected liquid to the leachate pretreatment system.

Leachate Pretreatment and Discharge System

- Storage Tanks – Large steel tanks used for equalization, storage, and discharge control.
- Treatment Tanks – Large steel tanks used as an active component of the pretreatment system.
- Pretreatment Building and Equipment – Process equipment, used together with the storage tanks and pretreatment tanks, to pretreat liquid to standards acceptable to the Metropolitan St. Louis Sewer District (MSD).

A schematic drawing showing these components is provided in the Leachate Management Plan and other reference documents. Systems utilize heat tracing or other weatherizing means as necessary to keep the systems operable during colder seasons.

Leachate management systems often require modification to adjust to the changing conditions over time. The changes caused by the SSR may include specific component quantities, ID numbers, etc. These changes may not all be referenced in this Volume 3 of the OM&M Plan. Instead, a current set of record documents and as-built drawings are maintained in the Landfill office.

In addition, this volume references other documents including the Health and Safety Plan (specifically designed for activities related to this OM&M Plan). Other referenced documents, such as the equipment operating manuals, and other equipment manufacturer information are located in the Manufacturers' Operations Guides and Data and these will be updated as needed with process changes.

2.0 OPERATION

2.1 LIQUID COLLECTION SYSTEM

2.1.1 Leachate Collection Sumps

Leachate Collection Sumps (LCS) are the primary leachate removal feature at the Bridgeton Landfill. Leachate levels in wells not impacted by the SSR shall be maintained as required by operating permit #118912. Sumps which are impacted by the SSR, shall be operated according to best management practices. Every attempt shall be made to operate those well that are impacted in accordance with permit #118912; however, failure to comply with the permit conditions at these sumps due to SSR impacts shall not be considered a violation. Procedures for operating the LCSs are provided in Appendix A.

2.1.2 Gas Extraction Well Dewatering

Gas extraction removal efficiency for some GEWs has been enhanced by adding dual phase gas/leachate extraction pumps. Liquid pumped from these GEWs is directed to the leachate collection system via a network of liquid transmission lines that are connected to the perimeter leachate collection system. The dual phase GEWs provides broad aerial coverage for liquid extraction from the waste mass. Operation details regarding the gas extraction system are provided in Volume 2 of this OM&M Plan.

2.1.3 Condensate Removal

For purposes of this document, condensate will be considered liquid that forms in the Gas Collection and Control System (GCCS) lateral and header pipes due to temperature drop and condensation of liquid out of the gas stream. Condensate drains thorough the gas conveyance pipes by gravity and is collected near the perimeter of the landfill in condensate traps or sumps. From there it is pumped into the perimeter force main and comingled with leachate.

2.1.4 Leachate Trench

The leachate trench is a passive feature to be monitored for its function.

2.1.5 Leachate Sumps

The leachate sump operates as flow is conveyed and accumulates from the leachate trench. Liquid collected in the LS is introduced into the liquid collection system with pumps.

2.1.6 Subcap Collection

The subcap drains are a series of liquid infiltration drains installed beneath the FML cap areas. The drains convey collected liquid to the leachate collection system, including liquids that might be expressed onto the ground surface as well as condensation that may occur below the FML cap. Liquids collected by the subcap collection drains are passively conveyed by gravity to a series of perimeter sumps installed near the perimeter or toe of slope (designated with PS- prefix on Infrastructure Drawings). Liquid collected in the PS features is introduced into the liquid collection system with pneumatic pumps.

2.2 LIQUID CONVEYANCE SYSTEM

2.2.1 Lateral Conveyance Piping

Below-grade and above-grade leachate transmission pipes are used to convey leachate from sumps, dewatering wells, and subcap drains to a larger-diameter perimeter leachate collection pipe. The conveyance piping systems are passive and as such require no specific operating procedures.

2.2.2 Lift Stations

Lift stations have been installed together with a perimeter force main. In addition, any location in which a pump is placed to lift liquid out of a vessel and into the perimeter force main is included in this category (e.g. leachate sumps, perimeter sumps, and condensate traps).

2.2.3 Perimeter Force Main

Below-grade and above-grade leachate perimeter force mains are used to convey leachate from the lift stations to the leachate pretreatment area. Force mains are passive features that do not require specific operating procedures.

2.3 LEACHATE PRETREATMENT SYSTEM

The leachate treatment operation and maintenance plan of the leachate pretreatment system is described in the Operations and Maintenance Manual - Leachate Pre-Treatment Plant (LPTP) Process Operations Section and Equipment Documentation Volumes 1-4 for the Bridgeton Landfill, December 2015 by Civil & Environmental Consultants, Inc., and is included by reference.

The processing of the landfill leachate is accomplished by a pretreatment facility permitted through MSD to meet their standards for discharge. The current MSD permit for the Bridgeton Landfill as of the date of this submittal is provided in Appendix B for reference. This plant is continuously operated and Bridgeton Landfill to maintain the required standards for the discharged liquid.

3.0 INSPECTION & MAINTENANCE

The leachate management system was designed and constructed to meet state-of-the-practice operation and durability thresholds, while providing for environmental protection and security. This treatment facility is a complex mechanical and electrical system having many components subject to severe environmental and chemical stresses in normal circumstances and that are exacerbated by the conditions caused by the SSR. These stresses include:

- Harsh weather conditions;
- Continuous operation;
- Volumetric variability;
- High liquid temperatures;
- Corrosive liquids;
- Chemical compounds in leachate unfavorable to some metals, concrete, seals, and gaskets;
- Periodic power outages;
- Potentially explosive gas vapors;
- High dissolved organic solids and biological anaerobes; and
- High dissolved mineral content.

Even the most robust systems operating in these conditions require consistent maintenance to provide satisfactory operation and performance. The nature of some of the conditions noted is unique to the SSR in the South Quarry area, and as such, Bridgeton Landfill has evolved maintenance regimens beyond those normally required at typical municipal solid waste (MSW) landfills.

Infrastructure items related to the leachate management system including the cap, wells and other apparatus will be maintained. Procedures for this effort are provided in Volume 1. Schedules of items or conditions to be inspected relative to the Leachate Management Systems are outlined in Table 1.

3.1 LIQUID COLLECTION SYSTEM

3.1.1 Leachate Collection Sumps

Inspections conducted per the schedule on Table 1 will be utilized and documented using the Leachate Collection Sump Inspection form provided as Appendix C.

3.1.2 Gas Extraction Well Dewatering

Inspection and maintenance details regarding this system are provided in Volume 2 of this OM&M Plan.

3.1.3 Subcap Collection

Inspections are covered in the Quad Checks outlined in Volume 1 and maintenance procedures for the subcap drains consist of line jetting as needed.

3.1.4 Condensate Removal

Inspections and maintenance for the condensate traps (CT- #) are covered in the Quad Checks outlined in Volume 1. A form to be completed for the inspections is provided in Volume 2.

3.1.5 Leachate Trench

The leachate trench is to be observed for its function.

3.1.6 Leachate Sumps

The schedule for Leachate Sump inspections is in Table 1. The details for the inspection are outlined in the quad checks described in Volume 1.

3.2 LIQUID CONVEYANCE SYSTEM

3.2.1 Lateral Conveyance Piping

Maintenance procedures for solid single-wall and double-walled leachate transmission pipes are provided in Appendix D.

3.2.2 Lift Stations

Inspections conducted per the schedule in Table 1 should be utilized and documented using the Lift Station Inspection form provided as Appendix E.

3.2.3 Perimeter Force Main

Maintenance procedures for solid single-wall and double-walled perimeter force main pipes are provided in Appendix D.

3.3 LEACHATE PRETREATMENT SYSTEM

The inspection and maintenance procedures for the operation and maintenance of the leachate pretreatment system is described in the Leachate Pretreatment Operation and Maintenance Manual, Process Operations Section and Equipment Documentation Volumes 1-4, dated December 2015 by Civil & Environmental Consultants, Inc.

The Operation and Maintenance manual for the Leachate Pretreatment Plant is maintained at the Treatment Plant, and is incorporated by reference.

4.0 PROCESS DISCHARGE

4.1 ON SITE DISCHARGE

The Bridgeton Landfill operations team will maintain communications with MSD to satisfy the Discharge permit. The primary liquid discharge from the facility is into the MSD collection system. This system will direct the liquid waste discharged into the collection system to a POTW Facility (Bissell Point facility, Cold Water Creek facility, or Missouri River facility). Effluent will be discharged to one of the approved facilities at MSD's discretion. Bridgeton Landfill or their designee will maintain discharge in accordance with Common Operations and Maintenance Standard Operating Procedures MSD/Bridgeton Landfill incorporated by reference.

4.1.1 Waste Disposal Facilities

Alternate contingent waste disposal options are currently provided by MSD and the American Bottoms Regional Wastewater Treatment Facility. The leachate pretreatment process has multiple redundancies built into the system that allow for numerous haul-out options if they are required for any emergency or other situation as mentioned previously.

MSD Bissell Point Wastewater Treatment Plant
10 East Grand Avenue
St. Louis, MO 63147

American Bottoms
1 American Bottoms Road
Sauget, IL 62201

4.2 PROCESSED LEACHATE MANIFESTING PROCEDURES

Each load of hauled processed leachate that leaves the facility is accompanied by a manifest completed by the generator (Bridgeton Landfill, LLC) and the transporting company. Manifests document information about the generator of the waste, the transporter of the waste, and the designated disposal facility for the waste. A generator's representative and a representative of the transportation company sign each manifest upon departure from the facility. A copy is kept on site. Once the transportation company delivers the load to the disposal facility, the disposal facility signs to accept the waste and keeps a copy of the manifest.

Data associated with the Leachate Management System are recorded and stored to facilitate daily decisions in the operations of the plant. Information is stored in a database that includes, but is not limited to, the following information:

- Dates of loading, transport, and disposal;
- Volumes of leachate processed;
- Batch identifiers;
- Analytical testing results for each batch as needed;
- Driver, vehicle, and load information; and,
- Manifest information.

The Division Manager will designate the responsibility for coordinating and scheduling tasks associated with the collection, storage, processing, sampling/analysis, transportation, and disposal of the leachate. These tasks include, but are not limited to:

- Communicating with hauling companies and disposal facilities each day with information regarding number of loads, volume expected, and leachate quality;
- Reviewing of completed manifests/loading tickets for completeness and accuracy;
- Collecting operational and/or confirmation samples and coordinating delivery to the laboratories;
- Reviewing and distribution of analytical results;
- Optimizing component processes; and,
- Summarizing the day's issues/results and the planned efforts for the following day.

5.0 FILTER CAKE DISPOSAL

5.1 DEWATERED SOLIDS DISCHARGE

The screw presses deposit dewatered solids into transport trailers. When the trailers are full, they will transport the solids to Roxana Landfill for disposal as special waste. The dewatered solids will be monitored to confirm that they comply with the special waste acceptance requirements of the Roxana Landfill. The Bridgeton Landfill operations team will maintain communications with the Roxana Landfill to satisfy the permit requirements and solid waste disposal regulations.

5.1.1 Waste Disposal Facilities

The dewatered solids are being disposed of at the Roxana Landfill. Periodic testing of the dewatered solids to confirm they are non-hazardous and meet the Roxana Landfill Special Waste Requirements were initially confirmed and are repeated as needed to maintain current profiling including resampling for significant process changes. See Appendix F for the Waste Department Decision with Filter Cake Characterization. The landfill location is:

Roxana Landfill
Republic Services
Address: 4601 Cahokia Rd,
Edwardsville, IL 62025
Phone: (618) 656-6912

5.2 FILTER CAKE MANIFESTING PROCEDURES

Each load of hauled dewatered solids that leaves the facility is accompanied by a manifest completed by the generator (Bridgeton Landfill) or an approved representative and the transporting company. The transporting company must be an approved waste hauler by all state and local regulations. Manifests document information about the generator of the waste, the transporter of the waste, and the designated disposal facility for the waste. A generator's representative and a representative of the transportation company sign each manifest upon departure from the facility. A copy is kept on site. Once the transportation company delivers the load to the disposal facility, the disposal facility signs to accept the waste and keeps a copy of the manifest.

Data associated with the Leachate Management System must be recorded and stored to facilitate daily decisions in the operations of the plant. Information is stored in a database that includes, but is not limited to, the following information:

- Dates of loading, transport, and disposal;
- Periodic analytical testing results for the dewatered solids;
- Driver, vehicle, and load information; and,
- Manifest information.

The Leachate Treatment Plant staff coordinates and schedules tasks associated with the collection, storage, processing, sampling/analysis, transporting, and disposal of the dewatered solids. These tasks include, but are not limited to:

- Communicating with hauling companies and disposal facilities each day with information regarding number of loads, and volume expected;
- Reviewing of completed manifests/loading tickets for completeness and accuracy;
- Optimizing component processes; and
- Summarizing the day's issues/results and the planned efforts for the following day.

Please refer to the Documents Incorporated by Reference (maintained in the Landfill Office) for a copy of the Leachate Pre-Treatment Plant Solids Sampling Plan dated September 19, 2014 by Barr Engineering.

TABLES

Table 1 – Schedule of Inspections and Maintenance for the Leachate Management Systems

Item or Conditions to Be Inspected	Approximate Inspection Frequency	Inspection and Correction Procedure	Location of Inspection Form
Leachate Collection Sump (LCS) Wellheads	Weekly	Inspect and maintain wellheads to ensure consistent and reliable operation including, fittings, joints, corrosion, riser pipe.	Appendix C
Leachate Collection Sump (LCS) Flow Meters	Weekly	Check flow meter reading, and transducer reading. Check total flow vs. historic average. If inconsistent, and evidence that pump is running, repair or replace flow meter.	Appendix C
Perimeter Leachate Transmission Pipes	As Needed	Jet clean accessible subcap leachate collectors.	Appendix D
Lift Stations	Monthly	Inspect and exercise valves, inspect and make sure floats operate freely, observe pumping cycle to verify correct off/on cycling.	Appendix E
Leachate Sumps (LS) and Perimeter Sumps (PS)	Weekdays	(Per procedures outlined in Quad Checks Volume 1 Appendix A)	-

Note: Additional features will be added as design and installations are necessary.

APPENDIX A

LEACHATE COLLECTION SUMP OPERATING PROCEDURES

APPENDIX A

Leachate Collection Sump Operation Procedures

The six (6) permitted Leachate Collection Sumps (LCS) are each programmed to operate using dedicated 3-phase electrical pumps, level transducers and variable frequency drives (VFDs).

- Individual pumps are sized based on sump depth and historical leachate volume. Pump manufacturer information and LCS as-built documentation will be retained in the site file system in a binder "Leachate Collection Sumps."
- VFDs shall be programmed to pump liquid to a specified set-point, and hold that level by regulating pump speed and operation as the sump recharges.
- Operate LCS pumps 24 hours per day, with automated temporary shutdown periods when pumping rate exceeds liquid recharge.
- Use Volume 3 Appendix C form for documenting operational problems or issues.

APPENDIX B

MSD PERMIT# 1003803000-1.4

Metropolitan St. Louis Sewer District

Division of Environmental Compliance
10 East Grand Avenue
St. Louis, MO 63147-2913
Phone: 314.768.6200 www.stlmsd.com

August 3, 2017

Erin Fanning
Division Manager
BRIDGETON LANDFILL LLC
13570 St. Charles Rock Road
Bridgeton, MO 63044

Re: Discharge Permit No: 1003803000 - 1.4
For premise at: 13570 St. Charles Rock Road, Bridgeton, MO 63044

Dear Ms. Fanning:

Your Metropolitan St. Louis Sewer District Industrial Wastewater Discharge Permit issued on December 01, 2016, for the above premise, is hereby revised as per the attached revised permit.

The following revisions were made to the permit:

- Removed the special condition for the maintenance and operation of the Westlake Pump Station.
- Added a special condition for the restriction of the discharge rate from Bridgeton Landfill. The flow restrictions are from the MSD's Operation and Maintenance SOP that was agreed upon by MSD and Bridgeton Landfill. There will be an instantaneous flow rate restriction of 500 gallons per minute.

We have reissued the entire permit for your convenience. Please replace your prior permit with this letter and the revised permit. The terms of the revised permit supersede your prior permit.

You must submit monitoring reports on a quarterly basis, as required by the conditions of this permit. The necessary report form is appended to the permit. It includes the specific certifications required by your permit. Please use this form for your report submittals.

This revision does not affect any monitoring or analysis of your discharge that may be necessary to comply with other requirements of your permit and in no way relieves you of your obligations to achieve the discharge limitations as provided in the permit.

We appreciate your cooperation and support in helping us to comply with federal regulations. Please contact me at 314.436.8721, if you have any questions.

Sincerely,
METROPOLITAN ST. LOUIS SEWER DISTRICT

Chris Bulmahn

Chris Bulmahn
Associate Engineer

Enclosures: Industrial Wastewater Discharge Permit, Self-monitoring Report Form

cc: Doug Mendoza

METROPOLITAN ST. LOUIS SEWER DISTRICT
DIVISION OF ENVIRONMENTAL COMPLIANCE
INDUSTRIAL WASTEWATER DISCHARGE PERMIT

PERMIT NO: 1003803000 - 1.4

EFFECTIVE DATE: August 01, 2017
EXPIRATION DATE: August 31, 2019

ISSUED TO: BRIDGETON LANDFILL LLC
13570 St. Charles Rock Road
Bridgeton, MO 63044

SIC NUMBER(S): 4953

TOTAL NUMBER OF PERMITTED DISCHARGE POINTS: 2
SAMPLING PT. REF NUMBER(S): 013, 014

In accordance with the provisions of the Federal Pretreatment Regulations (40 CFR 403) and Metropolitan St. Louis Sewer District Ordinance No. 12559, the permittee is hereby authorized to discharge wastewater into the Metropolitan St. Louis Sewer District's sanitary or combined sewer system. All discharges so authorized shall be limited and controlled pursuant to the terms and conditions of this permit.

Noncompliance with any term or condition of this permit shall constitute an ordinance violation. If formal enforcement action is required to gain compliance, the permittee who is found guilty of a violation shall be subject to fine or imprisonment, or both such fine and imprisonment, for each violation. Each day in which any such violation shall continue shall be deemed a separate offense.

Compliance with the terms and conditions of this permit does not relieve the permittee of the obligation to comply with all other applicable pretreatment regulations, standards, or requirements under local, State and Federal laws, including any such regulation, standard, legal requirement, or law that may become effective during the life of this permit.

This permit only authorizes wastewater discharges identified herein. It does not apply to any other discharge.

METROPOLITAN ST. LOUIS SEWER DISTRICT

Chris Bulmahn
Associate Engineer

Douglas M. Mendoza, P.E.
Mgr. of Industrial Pretreatment

DISCHARGE LIMITATIONS

SAMPLING POINT REFERENCE NUMBER: 013

SAMPLING POINT LOCATION: MH 15' NW, 27' SW of the N corner of concrete containment wall for effluent tank along Boenker Lane

AVERAGE WASTEWATER FLOW (GPD): 314,769

WASTEWATER SOURCE AND CATEGORY: Cooling Tower Blowdown + Plant & Equipment Washdown (Transfer station & jetter trucks) + Storm Water (Contaminated from leachate spills) + Condensate (Methane burnoff condensate) + Landfill Leachate (Including byproducts from underground thermal event)

DISCHARGE LIMITATIONS AND SELF-MONITORING REQUIREMENTS

Parameter	Limit *	Limit Type **	Sampling Frequency
Flow [GPD]	***	Daily Avg	Once/3 mo
Biochemical Oxygen Demand (5 Day) [mg/L]	****	Daily Avg	Once/3 mo
Chemical Oxygen Demand [mg/L]	****	Daily Avg	Once/3 mo
Total Suspended Solids [mg/L]	****	Daily Avg	Once/3 mo
Oil and Grease (Total) [mg/L]	200	Instant	Once/3 mo
Temperature [Deg C]	60	Instant	Once/3 mo
pH [SU]	11.5	Instant	Once/3 mo
pH [SU]	5.5	Instant	Once/3 mo
Transmittance Unfiltered	*****	Daily Avg	Once/3 mo
Ammonia (as N) [mg/L]	*****	Daily Avg	Once/3 mo
Gross Alpha [pci/L]	*****	Daily Avg	Once/3 mo
Gross Beta [pci/L]	*****	Daily Avg	Once/3 mo
Gross Gamma [pci/L]	*****	Daily Avg	Once/3 mo
Hydrogen-3 (Tritium) [pci/L]	10000000	Monthly Avg	Once/3 mo
Radium-226 [pci/L]	600	Monthly Avg	Once/3 mo
Radium-228 [pci/L]	600	Monthly Avg	Once/3 mo
Uranium-natural [pci/L]	3000	Monthly Avg	Once/3 mo
Uranium (Total) [mg/L]	*****	Daily Avg	Once/3 mo
Arsenic (Total) [mg/L]	0.77	Daily Avg	Once/3 mo
Benzene [mg/L]	0.14	Instant	Once/3 mo
Cadmium (Total) [mg/L]	0.7	Daily Avg	Once/3 mo
Chromium (Total) [mg/L]	5.0	Daily Avg	Once/3 mo
Copper (Total) [mg/L]	2.7	Daily Avg	Once/3 mo
Iron (Total) [mg/L]	150	Daily Avg	Once/3 mo
Lead (Total) [mg/L]	0.4	Daily Avg	Once/3 mo
Magnesium (Total) [mg/L]	*****	Daily Avg	Once/3 mo
Mercury (Total) [mg/L]	0.01	Daily Avg	Once/3 mo
Nickel (Total) [mg/L]	2.3	Daily Avg	Once/3 mo
Silver (Total) [mg/L]	0.5	Daily Avg	Once/3 mo
Zinc (Total) [mg/L]	3.0	Daily Avg	Once/3 mo
Total Phenols [mg/L]	21.0	Instant	Once/3 mo
Total Toxic Organics [mg/L]	5.844	Instant	Once/3 mo

* Limits are based on MSD Ordinance 12559 and applicable federal categorical standards. See Section II of the permit conditions for explanation of any adjustments to the published limits made pursuant to Article V, Section 2.B of the Ordinance.

** See Section I.A.2 of the permit conditions.

*** Report a measured or estimated average daily flow for at least one representative operating day per quarter. If additional flow measurements or estimates are made, all must be reported.

**** See Section I.A.11 of the permit conditions.

***** Monitoring requirement only

DISCHARGE LIMITATIONS

SAMPLING POINT REFERENCE NUMBER: 014

SAMPLING POINT LOCATION: Truck loading stations at 316K gallon equalization tank or 1 M gallon biological treatment tanks

AVERAGE WASTEWATER FLOW (GPD): 0

WASTEWATER SOURCE AND CATEGORY: Plant & Equipment Washdown (Transfer station & jetter trucks) + Landfill Leachate (Including byproducts from underground thermal event) + Condensate (Methane burnoff condensate)

DISCHARGE LIMITATIONS AND SELF-MONITORING REQUIREMENTS

Parameter	Limit *	Limit Type **	Sampling Frequency
Flow [GPD]	***	Daily Avg	Once/3 mo
Biochemical Oxygen Demand (5 Day)	****	Daily Avg	Once/3 mo
Chemical Oxygen Demand	****	Daily Avg	Once/3 mo
Total Suspended Solids	****	Daily Avg	Once/3 mo
Oil and Grease (Total) [mg/L]	****	Instant	Once/3 mo
Temperature [Deg C]	****	Instant	Once/3 mo
pH [SU]	****	Instant	Once/3 mo
Ammonia (as N)	****	Daily Avg	Once/3 mo
Gross Alpha	****	Daily Avg	Once/3 mo
Gross Beta	****	Daily Avg	Once/3 mo
Gross Gamma	****	Daily Avg	Once/3 mo
Hydrogen-3 (Tritium) [pci/L]	10000000	Monthly Avg	Once/3 mo
Radium-226 [pci/L]	600	Monthly Avg	Once/3 mo
Radium-228 [pci/L]	600	Monthly Avg	Once/3 mo
Uranium-natural [pci/L]	3000	Monthly Avg	Once/3 mo
Uranium (Total)	****	Daily Avg	Once/3 mo
Arsenic (Total) [mg/L]	****	Daily Avg	Once/3 mo
Benzene	0.14	Instant	Once/3 mo
Cadmium (Total) [mg/L]	****	Daily Avg	Once/3 mo
Chromium (Total) [mg/L]	****	Daily Avg	Once/3 mo
Copper (Total) [mg/L]	****	Daily Avg	Once/3 mo
Iron (Total) [mg/L]	****	Daily Avg	Once/3 mo
Lead (Total) [mg/L]	****	Daily Avg	Once/3 mo
Magnesium (Total)	****	Daily Avg	Once/3 mo
Mercury (Total) [mg/L]	****	Daily Avg	Once/3 mo
Nickel (Total) [mg/L]	****	Daily Avg	Once/3 mo
Silver (Total) [mg/L]	****	Daily Avg	Once/3 mo
Zinc (Total) [mg/L]	****	Daily Avg	Once/3 mo
Total Phenols [mg/L]	****	Instant	Once/3 mo
Total Toxic Organics [mg/L]	****	Instant	Once/3 mo

* Limits are based on MSD Ordinance 12559 and applicable federal categorical standards. See Section II of the permit conditions for explanation of any adjustments to the published limits made pursuant to Article V, Section 2.B of the Ordinance.

** See Section I.A.2 of the permit conditions.

*** Report a measured or estimated average daily flow for at least one representative operating day per quarter. If additional flow measurements or estimates are made, all must be reported.

**** Monitoring requirement only

PERMIT CONDITIONS

SECTION I - GENERAL CONDITIONS:

A. MONITORING AND REPORTING REQUIREMENTS:

1. From the effective date of this permit, the permittee shall sample and analyze the discharge, at each of the identified sampling points. The pollutants to be monitored, the limitations, limitation types and minimum sampling frequencies are specified individually for each sampling point. The results of sample analyses and the results of all other self-monitoring activities specified in this permit shall be reported to the District as per paragraph A.9 below.

2. The limitation types, which may be specified in this permit, are defined as follows:

An **INSTANT** limitation is the maximum allowable concentration or mass of the pollutant in a grab sample for all pollutants except pH and temperature. For pH, the INSTANT limitations are the minimum and maximum allowable instantaneous pH values in standard units. For temperature, the INSTANT limitation is the maximum allowable instantaneous temperature in degrees Celsius (centigrade).

A **DAILY AVG** limitation is the maximum allowable concentration or mass of the pollutant in a composite sample collected within a 24-hour period.

A **DAILY MAX** limitation is the maximum allowable concentration or mass of the pollutant in any sample collected within a 24-hour period.

A **MONTHLY AVG** limitation is the maximum allowable average concentration or mass of the pollutant determined by calculating the arithmetic average of the concentrations or masses found in all daily samples collected within a calendar month.

A **4-DAY AVG** limitation is the maximum allowable average concentration or mass of the pollutant determined by calculating the arithmetic average of the concentrations or masses found in the daily samples collected on four consecutive sampling days. Sampling days are not necessarily consecutive calendar days.

Note: A daily sample is any sample collected within a 24-hour period.

3. Unless specified otherwise in Section II of these conditions all samples, collected to satisfy the monitoring and reporting requirements of this permit, shall be of the following types:

a. Temperature, pH and chlorine residual measurements, when required, **shall be made on-site at the points of discharge** and those measurements reported as grab sample results except, if continuous monitoring is employed for pH and/or temperature, reporting shall be as per paragraph A.7 below.

b. For oil and grease, total phenols, cyanide, sulfide and volatile organics, when required, samples shall be **Grab Samples**.

c. For all other pollutants, samples shall be **COMPOSITE SAMPLES** made up by combining a minimum of four individual grab samples within a 24-hour period. The individual grabs must be adequately flow or time proportioned to ensure a composite sample that is representative of that day's discharge.

4. When monitoring is required for Total Toxic Organics (TTO), the TTO result shall be determined by summing all quantifiable values greater than 0.01 mg/l for the applicable toxic organics.

a. For a discharge subject to a categorical pretreatment standard, the applicable toxic organics are listed in the standard. The standards are contained in 40 CFR 405 through 40 CFR 471.

b. For all other discharges the applicable toxic organics are all of those, from the list in 40 CFR 401.15, which are or may be present in the discharge.

In addition to reporting the summed TTO result, the permittee shall include, with the self-monitoring report, the analytical value obtained for each toxic organic analyzed.

5. Sampling of all discharges shall be conducted in such a manner as to ensure that the results of individual samples (whether grab or composite) are representative of normal operations and that the results of all samples during the reporting period are representative of the conditions during the reporting period.

6. All sampling and analyses performed to satisfy the monitoring and reporting requirements of this permit shall be performed in accordance with the techniques prescribed in 40 CFR 136 and amendments thereto unless other techniques are prescribed, within this permit, for specific parameters.

7. If the permittee employs continuous monitoring techniques for pH, temperature, and/or lower explosive limit at any sampling point identified in this permit, unintentional and temporary excursions outside the limitations are allowed subject to the provisions of Article X, Subsection Two-D of District Ordinance 12559. The permittee shall include, with each self-monitoring report, a summary of the continuous monitoring data. For each month, the summary shall show all excursions outside the permitted limitations, the elapsed time for each excursion, and the total time for all excursions for temperature, pH, and/or lower explosive limit.

8. If the permittee monitors any of the listed pollutants, using the methods specified in this permit, more often than required by this permit, the results of all such additional monitoring and any additional flow measurements shall be included in the self-monitoring reports.

9. A self-monitoring report (on forms supplied or approved by the District) shall be submitted to the District's Division of Environmental Compliance for each calendar quarter. Each report shall include:

a. All facility and sample description information required on the District's reporting form.
b. Analytical results, with dates and times, for all analyzed samples collected within the quarter.
c. Daily flows, with dates, for all measurements or estimates made within the quarter.
d. Any certification statements required pursuant to the Special Conditions in Section II.
e. Any other data or attachments required pursuant to the Special Conditions in Section II.

Each self-monitoring report shall be certified and signed by an individual authorized in accordance with the provisions of Article X, Section Three of District Ordinance 12559. The reports shall be submitted to the District as soon as possible after all required data are available, but no later than 28 days after the end of each quarter.

For the calendar quarter of:	The report must be postmarked no later than:
January 1 through March 31	April 28
April 1 through June 30	July 28
July 1 through September 30	October 28
October 1 through December 31	January 28

A report must be submitted for each calendar quarter even if, for any reason, sampling was not required or was not performed during the quarter. **The first report under this permit is due by October 28, 2017.**

10. If any sampling performed by the permittee, using the methods specified in this permit, indicates a violation of any permit limitation, the permittee shall notify the District's Division of Environmental Compliance within one business day of becoming aware of the violation. The permittee shall resample the discharge and shall submit the results of the resampling within thirty (30) days of becoming aware of the violation.

11. Unless specified elsewhere in this permit, discharges of Biochemical Oxygen Demand (BOD), Chemical Oxygen Demand (COD) and Total Suspended Solids (TSS) are not limited under the terms of this permit. However, the monitoring values reported will be used by the District to assess the applicability of extra-strength surcharges under the provisions of the District's Wastewater User Charge Ordinances. Extra-strength surcharges may be applicable when measured values exceed 300 mg/l for BOD, 600 mg/l for COD and/or 300 mg/l for TSS. If the permittee is currently subject to extra-strength surcharge, the BOD, COD and TSS values used for billing, as of the permit effective date, are listed in Section II of the permit conditions. These values are updated periodically and may change during the life of this permit.

B. CHANGE IN DISCHARGE:

1. The permittee shall not significantly increase the average daily volume, or flow rate of discharge or add any significant new pollutants or significantly increase the discharge of existing pollutants set forth in this permit without first having secured an amendment to the permit unless the permit conditions authorize such increase or additions without an amendment.

2. The permittee shall notify the District's Division of Environmental Compliance of any proposed significant new or increased discharge. The permittee shall make the notification at least ten (10) business days prior to the date of the planned increase or addition.

3. As defined in Article II of District Ordinance 12559, significant new or increased discharge means:
   a. Any discharge from a new process or facility or a new source.
   b. Any increase in volume or rate of discharge from an existing process or facility when the new long term average daily volume or rate of discharge will exceed the previous long term average by 20% or more.
   c. Any addition of a priority pollutant or toxic pollutant not previously present or suspected present in the permittee's discharge.
   d. Any addition of a hazardous waste subject to, but not previously reported under the reporting requirements in Article VIII, Section Nine of District Ordinance 12559.
   e. Any increase in mass of an existing regulated pollutant when the new long term average daily mass discharge of that pollutant will exceed the previous long term average by 20% or more.
   f. Any addition of a new pollutant or any increase in mass of an existing pollutant when the discharge of such pollutant may cause or contribute to interference or pass-through as these terms are defined in Article II of District Ordinance 12559.
   g. Any new batch discharges when previous discharges from an existing source at the permitted facility occurred on a continuous basis.

C. PROBLEM DISCHARGE:

1. Problem discharge means any upset, slug discharge, bypass, spill or accident which does or may result in a discharge into the District's system of a prohibited substance; or of a regulated substance in excess of limitations established in this permit and which may: (a) cause interference or pass through; or (b) contribute to a violation of any requirement of the District's NPDES permit; or (c) cause violation of any State or Federal water quality standard.

2. In the event of any problem discharge into the District's system, the permittee shall immediately notify the District, by telephone, of the incident and shall provide such information as may be required at that time in order to assess the impact of the incident on the District's system or on water quality. Within five (5) business days following any such incident, the permittee shall submit to the District's Division of Environmental Compliance a detailed written report which contains a description of the incident and its cause, location within the permittee's facility, exact dates and times of the period of problem discharge and, if not yet corrected, the anticipated time the incident is expected to

continue, and steps taken or planned to correct the current incident and to reduce, eliminate and prevent occurrences of future such incidents.

3. Slug discharge control: The permittee shall develop and implement procedures to control slug discharges, as required by the District, and shall notify the District immediately of any changes at the permittee's facilities, not already addressed in the permittee's slug control requirements, which may affect the potential for a slug discharge.

D. BYPASSING PROHIBITED:

The permittee may not bypass any portion of its pretreatment facilities except when necessary to perform essential maintenance and then only if the bypass will not result in a violation of applicable pretreatment standards or requirements. Any other pretreatment facility bypass is prohibited unless:

a. The bypass is unavoidable to prevent loss of life, personal injury or severe property damage;
b. There are no feasible alternatives to the bypass; and
c. In the event of an anticipated bypass, advance notice is provided to the District's Division of Environmental Compliance.

E. PERMIT REVOCATION:

This permit may be revoked after thirty (30) days notice to the permittee for cause including, but not limited to, the following causes:

a. A violation of any term or condition of this permit.
b. A misrepresentation or failure to fully disclose all relevant facts in obtaining this permit.

F. PERMIT TERMINATION OR MODIFICATION:

1. This permit may be modified, after thirty (30) days notice to the permittee following promulgation of new State, Federal or local regulations to ensure compliance with the effective dates contained in any such new regulations.

2. Whenever any discharge covered by this permit is permanently eliminated, or when the circumstances upon which the permit was based pursuant to MSD Ordinance 12559, Article VI, Subsection 3.A, change, this permit will be terminated or modified upon verification of the changes by the District's Division of Environmental Compliance.

G. PERMIT RENEWAL:

The permittee shall apply for renewal of this permit at least one hundred eighty (180) days prior to the expiration date contained herein.

H. PERMIT TRANSFER:

This permit may not be transferred or reassigned. If the premise covered by this permit is sold or otherwise transferred to a new owner, the new owner shall apply for a new permit at least ten (10) days prior to the transfer and shall abide by all of the provisions of District Ordinance 12559 until the District issues a new permit or denies the application.

I. RIGHT OF ENTRY:

In order to ensure compliance with the provisions of this permit, District Ordinances and applicable State and Federal regulations, District representatives may inspect a permittee's treatment, pretreatment or discharge control facilities, or any process or any area of the permittee's premise which may be a source of any discharge or a source of any pollutants contained in any discharge into the District's wastewater system; conduct sampling of such facilities, processes or areas; and examine or copy any permittee's records related to such discharges. Any duly authorized representative of the District, upon presentation of proper credentials and after execution of appropriate confidentiality agreements, shall be permitted access to appropriate areas of the permittee's premises without prior notice for these purposes. A representative of the permittee shall, if appropriate, accompany the District representative while the work is being performed and shall assure that all applicable safety rules are being observed by the District's representative.

J. RECORDS RETENTION:

The permittee shall retain and preserve, for not less than five (5) years, all records, books, documents, memoranda, reports, sample analysis results, correspondence and any and all summaries thereof relating to the monitoring, sampling and chemical analyses of the permittee's discharge made by or on the permittee's behalf.

K. DEFINITIONS:

Unless the context specifically indicates otherwise, the meaning of terms used in this permit shall be as defined in Article II of District Ordinance 12559.

L. SEWER USE ORDINANCE:

Unless the context specifically indicates otherwise, the permittee is subject to all provisions of District Sewer Use Ordinance 12559.

M. NOTIFICATION AND REPORTING:

1. All notifications and reports required by this permit shall be directed to:

Metropolitan St. Louis Sewer District
Division of Environmental Compliance
10 East Grand Avenue
St. Louis, Missouri 63147-2913

2. Emergency notifications may be made 24-hours a day, 7 days a week by calling the District's dispatcher at (314) 768-6260.

3. During normal business hours, notifications may be made by calling the District's Division of Environmental Compliance at (314) 436-8710.

SECTION II- SPECIAL CONDITIONS:

These Special Conditions may supplement and/or amend the standard terms of this permit or the General Conditions in Section I. Where there is any perceived conflict between a Special Condition and either the standard permit terms or the General Conditions of Section I, the Special Condition shall govern.

A. PROHIBITED DISCHARGES

A.1. On Site Discharge Prohibited Prior to District Approval of Pretreatment Plant

Discharge of wastewater through the onsite sewer (sampling point **013**) shall be prohibited prior to the District's declaration of acceptance of the permittee's pretreatment plant operational conditions.

A.2. Untreated or Partially-treated Hauled Discharge

Prior to the District's declaration of the permittee's pretreatment plant operational acceptance, only wastewater that has received normal pretreatment to prevent discharge prohibitions and has been discharged through sampling point 014 (that is, hauled directly to District treatment plants and discharged there), is approved by this permit for hauling to District treatment plants and discharge. All other wastewater from the permitted facility that the permittee wishes to discharge through sampling point **014** (or otherwise haul to the District) must be approved for discharge separately by the District prior to hauling to District treatment plants and discharging.

Subsequent to the District's declaration of the permittee's pretreatment plant operational acceptance, for all wastewater that has not received full treatment through the permittee's pretreatment plant and that the permittee wishes to discharge through sampling point **014** (or otherwise haul to the District), the permittee shall give prior notification to the District and shall follow the applicable requirements for the District's April 24, 2013 approval and subsequent modifications.

A.3. Special Biochemical Oxygen Demand Limitation

In addition to complying with all permit and applicable District ordinance prohibitions against the discharge of any pollutant released at a concentration which will cause interference with the operation of the wastewater system, the permittee shall not discharge through sampling point 013, at any time:

- For wastewater directed to the District's Missouri River wastewater treatment plant or Coldwater Creek wastewater treatment plant,
  - o Daily mass of greater than 4,300 lb/day biochemical oxygen demand
- For wastewater directed to the District's Bissell Point wastewater treatment plant,
  - o Hourly mass of greater than 1,650 lb/hour biochemical oxygen demand, and
  - o Daily mass of greater than 20,000 lb/day biochemical oxygen demand.

These limitations in no way gives separate approval to or reservation for permittee of wastewater discharges with a biochemical oxygen demand above its long term average discharge levels.

A.4. Discharge Prohibited or Restricted to Protect District

Discharge of wastewater to particular District treatment plants shall be prohibited when the District so declares those plants as prohibited from receiving the permittee's wastewater. Alternately, discharge of wastewater to particular District treatment plants may be restricted by the District to certain volume or loading restrictions. Such declarations shall not be made by the District without cause, such as to prevent violations by the permittee of District Ordinance 12559 or other applicable ordinances.

Of particular note:

1. Discharge of wastewater to the District's Missouri River treatment plant shall be prohibited or limited when the permittee's wastewater has an ultraviolet transmittance percentage at a level that would interfere with proper ultraviolet disinfection at the treatment plant. At a minimum, from the first day of March through the last day of October in a calendar year, discharge to the treatment plant will be prohibited or limited.
2. Discharge of wastewater to any of the District's treatment plants shall be prohibited or limited when the permittee's wastewater has a biochemical oxygen demand concentration at a level that would interfere with proper biological treatment at the treatment plants.

A.5. Hazardous Hauled Wastes

Pursuant to District Ordinance 13701, Section 2.B, under no circumstance may hauled waste which is hazardous waste, as defined in 40 CFR 261 or 10 CSR 25-4.261, be discharged to District facilities. The permittee shall certify on each quarterly self-monitoring report that the permittee has not discharged any hazardous hauled waste.

B. SPECIAL SAMPLING AND ANALYTICAL PROCEDURES

B.1. Sampling/Reporting Requirement for Ordinance Total Phenols

Analysis for Total Phenols is to be performed using EPA Method 625. The result to be reported is the arithmetic sum of the concentrations found for the following individual phenolic compounds:

4-chloro-3-methylphenol	4,6-dinitro-2-methylphenol	pentachlorophenol
2-chlorophenol	2,4-dinitrophenol	phenol
2,4-dichlorophenol	2-nitrophenol	2,4,6-trichlorophenol
2,4-dimethylphenol	4-nitrophenol	

As an option, prior to performing the Method 625 analysis, an initial screening may be performed using EPA Method 420.1. If this option is chosen, two separate samples must be collected, one preserved for the method 420.1 analysis and one unpreserved for a method 625 analysis, if necessary. If the screening produces a result which is less than the permit limitation for Total Phenols, the result should be reported as "less than (numerical result)", and the Method 625 analysis need not be performed. If Method 420.1 produces a result which is greater than the permit limitation, the unpreserved sample must be analyzed using Method 625 and the Method 625 result must be reported. Note: The screening analysis must be completed and a result obtained within sufficient time to ensure the Method 625 analysis, if required, can begin within the 7 day holding time of the unpreserved sample.

B.2. Sampling/Reporting Requirement for Total Toxic Organics

The permittee shall sample and report Total Toxic Organics using at a minimum EPA Methods 624 and 625, or equivalent. Other EPA Methods may be necessary to analyze for toxic organics which are or may be present in the discharge. As part of the Total Toxic Organics report, the permittee shall report all volatile and semi-volatile organics which EPA methods 624 and 625, or equivalent, scan for, as well as all organics which other methods used scan for, and the sum of all quantifiable values greater than 0.01 mg/l.

B.3. Sampling and Reporting Frequencies

Prior to the District's declaration of the permittee's pretreatment plant operational acceptance, the sampling frequency and acceptance procedure for the treated leachate discharge will follow the sampling parameters, frequency, and reporting requirements contained in the District's April 24, 2013 approval and subsequent modifications.

Following the District's declaration of plant acceptance, the permittee's discharge will be sampled for the parameters listed under sampling point **013** as follows:

1. Once/day for the first 30 calendar days. This sample of fully treated leachate may be collected from an internal sampling point prior to entry into the approved storage tank; however at least the final three samples must be collected from an approved tank.
2. At the end of the 30 day period, if analytical results are obtained for at least the final 7 consecutive days at or below the limits contained in the permit for onsite discharge, or in District Ordinance 12559 if not contained in the permit, sampling will continue on a once/week schedule for the next three months.
3. Should analytical results from once/week sampling meet the discharge limits for three consecutive months, sampling will continue at a once/month frequency for the following six months.
4. Should analytical results from once/month sampling meet the discharge limits for six consecutive months, sampling will continue at the frequencies defined in the permit.

Should a sample fail to meet the discharge limit for any parameter, the sampling frequency will revert to the next more frequent sampling interval listed above. Reversion to next more frequent sampling interval shall only apply to the parameter failing to meet its discharge limit. Reversion shall continue for the period specified for the initial sampling frequency reductions.

At least one of the initial once/day samples shall be analyzed for Gross Alpha, Gross Beta, Gross Gamma, Radium-226, Radium-228, and Uranium.

The sampling intervals listed above shall apply to the permittee's discharge regardless of discharge location to the District, whether on site or hauled.

Sample type and reporting frequency shall be as follows:

Sampling Frequency	Sample Type	Reporting Frequency
Once/day (12:00 am to 12:00 am)	Grab or 24-hr composite	Once/week. Reports shall be submitted by noon on each Wednesday and include all operational and laboratory reports received for activity through the previous Saturday.
Once/week (Sunday to Saturday)	24-hr composite	Once/week. Reports shall be submitted within 2 weeks (14 calendar days) of sampling.
Once/calendar month	24-hr composite	Once/month. Reports shall be submitted within 3 weeks (21 calendar days) of sampling.

All grab samples shall be collected in such a manner as to be as representative as possible of the full daily discharge.

This special condition does not relieve the permittee from any violations of the industrial wastewater discharge permit, nor District Ordinance 12559, nor any other applicable District ordinances. Neither does this special condition relieve the permittee from any other obligations of the industrial wastewater discharge permit, District Ordinance 12559, or any other applicable District ordinances.

B.4. Discharge of Contaminated Storm Water

Permittee is authorized to discharge storm water storm water contaminated with leachate to the District's sanitary sewer system, subject to the requirements contained in the District-approved April 14, 2014 version of the Protocol for Discharge of Contaminated Stormwater, and subsequent modifications.

B.5. Additional Hauled Waste Requirements

The District retains the authority to add other analytical and discharge control requirements for hauled waste loads, as deemed necessary, without making a formal modification to the discharge permit.

C. SPECIAL CERTIFICATION AND REPORTING REQUIREMENTS

C.1. Notification of Change Between On Site and Hauled Discharge

Whenever the permittee becomes aware of its need or desire to change discharge method between sampling point **013** (onsite) or sampling point **014** (hauled), or to change distribution between the two methods if both methods are being utilized simultaneously, permittee must immediately notify the District of such need or desire.

C.2. NPDES Discharge Point

This permit does not regulate discharges at MSD sampling points 004 (NPDES 003), 009 (NPDES 004), 010 (NPDES 005), 011 (NPDES 006), or 012 (NPDES 007). These discharges are subject to State regulation under NPDES permit number MO-0112771. Permittee is authorized to discharge storm water contaminated with leachate to the District's sanitary sewer system, subject to special condition B.4. For storm water that is contaminated with material other than leachate, permittee is authorized to route it to the permittee's pretreatment plant, however should the permittee plan to route it directly to District sewers, the permittee shall notify the District's Division of Environmental Compliance at least ten (10) days prior to the date of the planned change.

C.3. Radioactive Discharge Reporting Requirements

Permittee is authorized to discharge not more than the following amount of radioactive material per year to the District's sanitary sewers:

(1) For materials subject to licensing by the Nuclear Regulatory Commission:
5 curies Hydrogen-3
1 curie Carbon-14
1 curie for all other radioactive materials combined
(2) For all other materials:
1 curie for all radioactive materials combined

Excreta from individuals undergoing medical diagnosis or treatment with radiological materials shall be exempt from this prohibition. Any radioactive material discharged to the wastewater system must be readily soluble (or readily dispersible biological material) in water. This authorized level may be modified at any time should the District determine that permittee's discharge of radioactive materials, either alone or in conjunction with other user's discharges of radioactive materials, causes interference as defined in MSD Ordinance 12559.

The permittee shall include with each quarterly self-monitoring report, on forms supplied by the District, a radioactive materials discharge report. The report shall specify the activity discharged to the sewer system by radionuclide during the reporting period. The permittee shall also certify compliance with state and federal regulations for disposal of radioactive material by release into sanitary sewage.

C.4. Materials exempt from Radioactive Discharge Reporting Requirements (non-NRC licensed materials only)

As specified in Missouri State Regulation 19 CSR 20-10.020, discharges from timepieces, instruments, novelties or devices containing self-luminous elements themselves are exempt from inclusion in the summation under the Radioactive Discharge Reporting Requirements, so long as all other conditions of 19 CSR 20-10 regarding these materials are met.

C.5. Radioactive Uranium Reporting Requirements

For the purposes of this permit, measurement and reporting of Uranium-natural for radioactivity levels shall consist of the summation of Uranium-234, Uranium-235, and Uranium-238 isotopes.

C.6. Repeated Submittal of Already-Submitted Analytical

For any sampling analytical results submitted prior to the required quarterly self-monitoring report, permittee need not repeat those results on the quarterly self-monitoring report.

D. SPECIAL BILLING REPORTING REQUIREMENTS

D.1. Hauled Waste Discharge Fees

Following the District's declaration of the permittee's pretreatment plant operational acceptance, for wastewater that has received approved pretreatment and is discharged through sampling point **014** (that is, hauled directly to District treatment plants and discharged there), the permittee will be billed at a rate of $0.02/gallon.

For wastewater that has received partial treatment pursuant to Alternative 3 of the Revised Leachate SOP approved August 22, 2014, and any subsequent modifications, MSD will calculate volume and surcharge rates under Ordinance 13758, Appendix 1 using monthly average levels for BOD and TSS. The permittee will be billed this rate except that in no case will the permittee be charged more than provided for in Ordinance 13701 or its successors, presently $0.08/gallon, or less than $0.02/gallon.

In addition, the permittee also will be billed all additional fees and charges incurred by the District (including, wages. salaries, benefits, and operational costs) in receiving wastewater from the permittee discharged through sampling **014** (or otherwise hauled to the District) at times other than during normal business hours as defined in District Ordinance 13701.

D.2. Reporting Wastewater Discharged On Site

For billing purposes, the permittee shall submit monthly reports of the volume of wastewater discharged through sampling point **013**. These reports shall be sent to:

Metropolitan St. Louis Sewer District
Divison of Environmental Compliance
10 East Grand Ave.
St. Louis, MO 63147

Alternately, the reports may be submitted electronically via mutually-agreed method. The reports shall be sent within 15 days of the end of each month. For each month in which no discharge occurs, the permittee shall submit a report stating that no discharge occurred. Permittee may also be required to submit additional information or reports, to ensure compliance with MSD ordinances or with applicable State and Federal regulations. Copies of the monthly volume reports shall also be included with the routine quarterly self-monitoring reports required pursuant to General Condition I.A.

D.3. Reporting Hauled Wastewater Discharge

For billing purposes, the permittee shall submit monthly reports of the volume of wastewater discharged through sampling point **014** (that is, hauled directly to District treatment plants and discharged there). These reports shall be sent to:

Metropolitan St. Louis Sewer District
Division of Environmental Compliance
10 East Grand Ave.
St. Louis, MO 63147

Alternately, the reports may be submitted electronically via mutually-agreed method. The reports shall be sent within 15 days of the end of each month. For each month in which no discharge occurs, the permittee shall submit a report stating that no discharge occurred. Permittee may also be required to submit additional information or reports, to ensure compliance with MSD ordinances or with applicable State and Federal regulations. Copies of the monthly volume reports shall also be included with the routine quarterly self-monitoring reports required pursuant to General Condition I.A.

D.4. BOD in Lieu of COD for Extra-Strength Surcharges

Upon submittal by the permittee, and acceptance by the District, of data indicating that although the BOD/COD (biochemical oxygen demand / chemical oxygen demand) ratio of the permittee's wastewater is less than 0.35, BOD is more representative of the user's actual wastewater strength and the COD in the wastewater discharge does not receive further treatment and reduction by the District beyond that commensurate with the associated BOD in the wastewater discharge, the District will calculate applicable extra-strength surcharges using BOD values in lieu of COD values.

E. DISCHARGE DAMAGES

E.1. Revocation of Hauled Waste Permit

This permit has been issued based upon the information and sample analysis provided by the permittee. The permit may be revoked by the District at any time if any submitted information is found to be incorrect, the discharges cause any operational or maintenance problems with the District's treatment system, or if the conditions and requirements of the permit are violated.

E.2. Responsibility of Damages from Hauled Waste

If any discharge by the permittee causes any operational or maintenance problems within the District's collection or treatment systems or results in violations of any conditions of the District's NPDES permit, the permittee will be responsible for damages, in accordance with applicable District ordinances or other applicable laws.

F. DERIVATION OF LIMITATIONS

F.1. Variance Limits

Pursuant to the provisions of District Sewer Use Ordinance 12559, Article VI, Section Two, the permittee has been granted a variance to the Ordinance limitations for total arsenic at sampling point 013. The permittee shall comply with the alternative limits specified. The alternative limits are effective for the life of this permit but may be revoked at any time if it is determined that discharge at the variance levels is causing or contributing to interference or pass through as defined in Article II of the Ordinance. The variance will expire upon expiration of this permit unless justification for continuance of the alternative limits is provided by the permittee at the time of application for permit renewal.

F.2. Volumetric Flow Rate Discharge Restrictions

The flow that is discharged from Bridgeton Landfill into the District Collection System at sample point **013** shall not:

- Exceed a 24 hour rolling average flow rate of 260 gallons per minute,
- Exceed a 4 hour rolling average flow rate of 290 gallons per minute,
- Exceed a maximum instantaneous flow rate of 500 gallons per minute

unless otherwise approved by the District.

THIS IS THE LAST PAGE OF THIS PERMIT

METROPOLITAN ST. LOUIS SEWER DISTRICT
INDUSTRIAL USER SELF MONITORING REPORT

PART I: IDENTIFYING INFORMATION

Company Name: **BRIDGETON LANDFILL LLC**

Permit No: 1003803000 - 1.4 Effective Date: August 01, 2017 Expiration Date: August 31, 2019

Premise Address: 13570 St. Charles Rock Road, Bridgeton, MO 63044

Monitoring Period: ☐(JAN-MAR) ☐(APR-JUNE) ☐(JULY-SEPT) ☐(OCT-DEC)

Samples Collected By: _____

Analyses Performed By: _____

PART II: ANALYTICAL RESULTS OF SELF MONITORING

MSD SAMPLE POINT REFERENCE NUMBERS ⇨								
DATES ON WHICH SAMPLES WERE COLLECTED ⇨								
TIMES AT WHICH SAMPLES WERE COLLECTED ⇨								
PARAMETER	LIMIT	RECORD SAMPLE TYPES (G, C, M OR E) AND RESULTS BELOW (G=grab, C=composite, M=measured flow, E=estimated flow)						UNITS
FLOW								

You must complete and sign the certification statements on the second page.

PART III: SPECIAL CERTIFICATION STATEMENTS

Based on the special conditions contained in your discharge permit you may be required to certify the following. Please review your permit and **PLACE YOUR INITIALS ON THE LINES NEXT TO THE CERTIFICATIONS.**

PART IV: GENERAL CERTIFICATION STATEMENTS

B. Certify discharge monitoring report & attachments

All permittees must sign and complete the information below:

I certify under penalty of Law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Print or type name of signing official: _____

Title: _____ Telephone: _____

Signature: _____ Date: _____

METROPOLITAN ST. LOUIS SEWER DISTRICT
DIVISION OF ENVIRONMENTAL COMPLIANCE
10 EAST GRAND AVENUE
ST. LOUIS, MISSOURI 63147

PRESORTED
FIRST CLASS

U.S. POSTAGE PITNEY BOWES

ZIP 63110 $ 001.05⁰
02 4W
0000350283 AUG 04 2017

RECEIVED AUG 08 2017

Erin Fanning
BRIDGETON LANDFILL LLC
13570 St. Charles Rock Road
Bridgeton, MO 63044

APPENDIX C

LEACHATE COLLECTION SUMP INSPECTION FORM

APPENDIX C

BRIDGETON LANDFILL

LEACHATE COLLECTION SUMP INSPECTION FORM

Date of Inspection: _____

Name of Inspector: _____

Inspection Item	Item Tracking Number(s)
Weekly	
Fittings	
Joints	
Corrosion	
Riser Vertically	
Absence of Flow	
Flow Meter Performance	
Flow Meter Reading	
Transducer Reading	
Control Room Climate Control System	

Note: See attached Leachate Collection Sump Inspection Item Tracking Form (one per item indicated on the above form).

Inspection Items		
Sump ID	Date	Time

BRIDGETON LANDFILL

LEACHATE COLLECTION SUMP INSPECTION
ITEM TRACKING FORM

Tracking No._____ (e.g. MMDDYY-____)

Inspector's Name: _____

Inspection Item Noted:

Description: _____

Location: _____

Other: _____

Follow-up Technician's Name: _____

Incident Resolution Description: _____

_____

_____

Date of Resolution: _____

_____

Follow-Up Technician's Signature

APPENDIX D

TRANSMISSION PIPE MAINTENANCE PROCEDURES

APPENDIX D

Leachate Transmission Pipe Maintenance Procedures

The intent of pipe cleaning is to remove foreign materials from the lines and restore the pipe to near the original carrying capacity. It is recognized that there are some conditions such as broken or damaged pipe and major blockages that prevent cleaning from being accomplished or where additional damage would result if cleaning were attempted or continued. Should such conditions occur, the operator will contact the Operations or Environmental Manager before proceeding.

Choose the right nozzle for the job. This decision is based on several different factors such as amount of flow, pipe type, pipe size, and condition of the lines. The operator must also pick the appropriate fins to mount the nozzle onto. The operator, or helper, will prop down enough rodder hose slack to be able to place the nozzle in the mouth of the pipe with the tiger tail at the top of the pipe to keep from tearing the rodder hose. Turn the water pressure on efficient enough to shoot the nozzle in until the end of the leader hose is showing in the mouth of the pipe. At this time, clear the footage counter and set it to zero so the footage can be measured properly.

In general, a 15 degree nozzle is used for high grade, long lines and when penetrating blockages. A 30 degree nozzle is best for cleaning due to the juts of water hitting the wall more directly and closer to the nozzle.

Allow hose to feed itself through the line at a moderate pace. It may be best to feed hose about 30 feet and return, then 50 feet and return and 25 feet and return until end of run, if line is tightly packed. Continue to jet the line until nothing but clear water comes through the line while bringing the nozzle back to the starting position.

When reaching the end of the run, pull the hose back by reversing direction of the control valve lever. If the line is clean, minimum water pressure is needed. When the nozzle returns to the point of entry, lower pressure completely by reducing engine RPM using the throttle control on reel frame. Disengage the auxiliary motor and return the tubes to the racks and place the boom back into transport position.

Recommended jet-rodding frequency shall be as follows:

Perimeter Collection Pipes	Annually
Leachate Collection Sump Pipes	Semi-Annually
Subcap Drains	Annually
Gas Extraction Well Transmission Pipes	N/A (replace sections of pipe if believed to be obstructed)

During construction, upgrade, or modification periods, it may not be possible to strictly meet the recommended schedule. Pressure will be monitored to evaluate the performance of the lines and frequency will be adjusted based on these results.

APPENDIX D

Specific precautions are provided below:

Precaution	Procedure
1	Provide containment by constructing temporary berms and deploying plastic sheeting if back flow is expected.
2	When jetting down gradient, verify receiving structure and control valves are in ready position to receive jet flow.
3	Vacuum the expressed liquids as they discharge.
4	Vacuum up remaining liquid expressed from cleanout.
5	Excavate impacted soil and dispose of properly.

In addition to keeping the pipes open, an important function of the jet-rodding process is to verify the pipes are open throughout their entire length. The operator will note the maximum distance attained and record it in the form next to the known, constructed length. An example of the records to be kept is attached (form that has been used historically for jet-rodding the cell floor leachate collection lines at the site). If a large disparity between attained length and constructed length is observed, the Environmental Manager will be notified for further direction.

APPENDIX E

LIFT STATION INSPECTION FORM

APPENDIX E

BRIDGETON LANDFILL

LIFT STATION INSPECTION FORM

Date of Inspection: _____

Name of Inspector: _____

Inspection Item	Item Tracking Number(s)
Weekly	
Fittings	
Joints	
Corrosion	
Riser Vertically	
Absence of Flow	
Flow Meter Performance	
Flow Meter Reading	
Transducer Reading	
Control Room Climate Control System	

Note: See attached Lift Station Inspection Item Tracking Form (one per item indicated on the above form).

Inspection Items		
Sump ID	Date	Time

BRIDGETON LANDFILL

LIFT STATION INSPECTION
ITEM TRACKING FORM

Tracking No._____ (e.g. MMDDYY-____)

Inspector's Name: _____

Inspection Item Noted:

Description: _____

Location: _____

Other: _____

Follow-up Technician's Name: _____

Incident Resolution Description: _____

_____

_____

Date of Resolution: _____

_____

Follow-Up Technician's Signature

APPENDIX F

WASTE DEPARTMENT DECISION WITH FILTER CAKE CHARACTERIZATION

REPUBLIC SERVICES

Special Waste Summary Report

Contract Number: 43381416383 ~~4338 13 13166~~

Landfill : Roxana

Sales Rep: Cory Evans

Bill To: Bridgeton Landfill

Acct #: #910106

Generator Name: **Bridgeton Landfill**

Origin: MO

Waste Name: Filter Cake

Trux Waste Code: Filter Cake-WV

Inbound Rate: $ 15.36 UOM: Tons

Minimum:

Fee/Taxes (This should be set up at the Account level w/ Division)
(ERF/FRF/Admin/Local)

Manifest Required?

Other Charges:
(Trans, Backfill, App, etc.)

Transporter Information:

Name:

Address

Address

Phone

Additional Notes:
EXEMPT ALL FEES

ENTERED BY: [signature] DATE: 8-16-17

ADDITIONALLY APPROVED BY: [signature] DATE: 8-15-17

REPUBLIC SERVICES, INC.

Republic Services, Inc.

18500 N. Allied Way, Phoenix, AZ 85054

SPECIAL WASTE DEPARTMENT DECISION

	Waste Profile # 43381416383	**Expiration Date** 9/19/2020	
I. Decision Request:	☐ Initial ☑ Recertification ☐ Change		

Disposal Facility: 4338 - Roxana L/F

Generator Name: Bridgeton Landfill LLC

Generator Site Address: 13570 St Charles Rock Rd

City: Bridgeton	**County:**	**State:** MO	**Zip:**

Name of Waste: Leachate Filter Cake

Estimated Annual Volume: 40000 Tons

II. Special Waste Department Decision: ☑ Approved ☐ Rejected

Management Method(s): ☑ Landfill ☐ Solidification ☐ Bioremediation ☐ Transfer Facility

Problematic Special Waste according to Republic? ☐ Yes ☑ No

If yes, which one?

Approved by Special Waste Review Committee? ☐ Yes ☐ No ☑ Not Applicable

Precautions, Conditions or Limitations on Approval

This material has been approved as Non-Special/Declassified IL waste in accordance with §40 CFR 261 and the Illinois Environmental Protection Act Section 3.45, and Section 22.48.
Free liquids cannot be accepted for landfill disposal §40 CFR 258.28. A Republic Services manifest is required to be used when hauling this Waste.

Special Waste Analyst Signature: _____ **Name (Printed):** Suzanne Glass

Date: 8/10/2017

III. Facility Decision: ☑ Approved ☐ Rejected

Precautions, Conditions or Limitations on Approval

By signing below, the General Manager or Designee agrees that a fully executed Special Waste Service Agreement is on file for this profile and that the special waste file is complete.

General Manager or Designee: _____ **Name (Printed):** _____

Date: 8/10/2017

Republic Services, Inc.

18500 N. Allied Way, Phoenix, AZ 85054

SPECIAL WASTE DEPARTMENT DECISION

	Waste Profile #	Expiration Date	
	43381416383	9/19/2020	

I. Decision Request: ☐ Initial ☑ Recertification ☐ Change

Disposal Facility: 4338 - Roxana L/F

Generator Name: Bridgeton Landfill LLC

Generator Site Address: 13570 St Charles Rock Rd

City: Bridgeton	County:	State: MO	Zip:

Name of Waste: Leachate Filter Cake

Estimated Annual Volume: 40000 Tons

II. Special Waste Department Decision: ☑ Approved ☐ Rejected

Management Method(s): ☑ Landfill ☐ Solidification ☐ Bioremediation ☐ Transfer Facility

Problematic Special Waste according to Republic? ☐ Yes ☑ No

If yes, which one?

Approved by Special Waste Review Committee? ☐ Yes ☐ No ☑ Not Applicable

Precautions, Conditions or Limitations on Approval

This material has been approved as Non-Special/Declassified IL waste in accordance with §40 CFR 261 and the Illinois Environmental Protection Act Section 3.45, and Section 22.48.
Free liquids cannot be accepted for landfill disposal §40 CFR 258.28. A Republic Services manifest is required to be used when hauling this Waste.

Special Waste Analyst Signature:  **Name (Printed):** Suzanne Glass

Date: 8/10/2017

III. Facility Decision: ☐ Approved ☐ Rejected

Precautions, Conditions or Limitations on Approval

By signing below, the General Manager or Designee agrees that a fully executed Special Waste Service Agreement is on file for this profile and that the special waste file is complete.

General Manager or Designee: _____ **Name (Printed):** _____

Date: 8/10/2017

REPUBLIC SERVICES, INC.

SPECIAL WASTE PROFILE - RECERTIFICATION

Saveable fill-in form Restricted printing until all required (yellow) fields are completed

Disposal Facility:	4338 Roxana LF IL	Waste Profile #	43381416383

I. Generator Information

Generator Name: Bridgeton Landfill, LLC			
Generator Site Address: 13570 St Charles Rock Road			
City: Bridgeton	County: St Louis	State: Missouri	Zip: 63044
State ID/Reg No:	State Approval/Waste Code:		NAICS #:
Generator Mailing Address (if different): ☐ 13570 St Charles Rock Road			
City: Bridgeton	County: St Louis	State: Missouri	Zip: 63044
Generator Contact Name: Dana Sincox, Environmental Manager		Email: dsincox@republicservices.com	
Phone Number: (314) 313-0838		Fax Number:	

II. Waste Stream Information

Name of Waste: Leachate Filter Cake

Check Section 1 OR Section 2 below:

1. ☐ There has been a change in the characteristics of the waste stream due to the following:
   a. Change of a raw material used in the waste generating process.
   b. Change in the waste generating process itself.
   c. Change in a physical characteristic of the waste.
   d. New information has been documented concerning the human health effects of exposure to the waste.

   If any of these changes have occurred, a new laboratory analysis and profile sheet must be completed. Attach copies of the new chemical analysis and new Special Waste Profile with the appropriate signatures.

2. ☒ There have been no changes that would alter the physical characteristics of the special waste stream. Updated analytical may be required.

III. Representative Sample Certification

☒ No Sample Taken

Is the representative sample collected to prepare this profile and laboratory analysis, collected in accordance with U.S. EPA 40 CFR 261.20(c) guidelines or equivalent rules?	☐ YES or ☐ NO

Type of Sample: ☐ COMPOSITE SAMPLE ☐ GRAB SAMPLE

Sample Date:

Sample ID Numbers:

IV. Certification

I hereby certify that to the best of my knowledge and belief, the information contained in the Special Waste Profile - Recertification and the information in the Original Special Waste Profile is true, complete and accurate.

Erin Fanning / Division Manager	Bridgeton Landfill LLC
Authorized Representative Name And Title (Printed)	Company Name
Erin Fanning	8/9/2017
Authorized Representative Signature	Date

REPUBLIC SERVICES, INC.

Date: _____

Time: _____

SPECIAL WASTE INSPECTION SHEET

☐ **Initial** ☐ **Random** ☐ **Suspicious** ☒ **Recertification**

Disposal Facility: Roxana Waste Profile # 43381416383

Generator Name: Bridgeton LF

Name of Waste: Leachage Filter Cake

Transporter Name: I/C

Transporter Phone Number: _____

Driver Name: _____

Vehicle License Plate Number and State: _____

Physical Screening

INDICATE **YES** OR **NO** FOR EACH OF THE FOLLOWING TESTS AND NOTE ANY DESCREPANCIES. DO THE CHARACTERISTICS OF THE WASTE MATCH THE PROVIDED INFORMATION ON THE SPECIAL WASTE PROFILE?

Characteristics	Profile	Yes	No	Comments and/or Observations:
Color	dark	☐	☐	
Odor	none	☐	☐	
Physical State	solid	☐	☐	
Free Liquids	no	☐	☐	
Is a Photograph Attached?		☐	☐	Initial Load Must Include Photograph

IF WASTE FAILS ONE OR MORE OF THE PHYSICAL SCREENING TESTS, THE WASTE IS DEEMED UNACCEPTABLE FOR DISPOSAL AND SHOULD BE REJECTED.

Waste Accepted

_____

Inspector Signature Date

Waste Rejected (If Rejected then a Photograph MUST be attached.)

Reasons for Rejection

☐ Extraneous and/or Unauthorized Material ☐ Suspected Hazardous Waste ☐ Suspected PCB Waste

☐ Suspected PCB Waste ☐ Free Liquids ☐ Does Not Match Profile

Comments

_____

_____

_____

Inspector Signature Date

_____

General Manager or Designee Date